

# 6 1/2-Inch Stereo Ceiling Speaker

40-4092

OWNER'S MANUAL — Please read before using this equipment.

## ! IMPORTANT !

If an icon appears at the end of a paragraph, go to the box on that page with the corresponding icon for pertinent information.

- ⚠ — Warning
- ⚡ — Caution
- ✓ — Note

- ! — Important
- 💡 — Hint

Your RadioShack 6 1/2-Inch Stereo Ceiling Speaker features two cross-overs, a 6 1/2-inch dual voice coil woofer for rich lows, and two 1/2-inch tweeters for crisp highs. The speaker can be connected to work in either mono or stereo configurations. The angled tweeter array provides optimum stereo separation and gives you stereo sound from

just one speaker. Your speaker can handle up to 80 watts of music power. The wing-type mounting system makes it easy to mount your speaker flush with a ceiling or wall, making it ideal for unobtrusive use in a surround-sound system. The frame and grille can also be painted to match the room's decor.

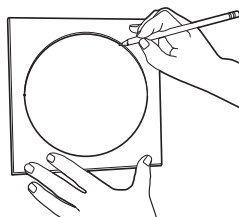
## INSTALLATION

### PREPARING THE LOCATION

To mount your speaker, you need the following items (not supplied, available at your local RadioShack or online at RadioShack.com).

- drywall or keyhole saw
- wire stripper
- Phillips screwdriver
- pencil or marker
- 18–20 gauge speaker wire

1. Be sure the mounting surface is between 3/8 inch and 1 1/4 inch thick, with at least a 2 3/4-inch clearance behind the mounting surface and no wall studs or other objects to block the back of the speaker.
2. Remove the inner cardboard disc from the supplied template/paint mask and keep it for later. Use the outer portion as a template to mark the cutout hole size and location for mounting the speaker.

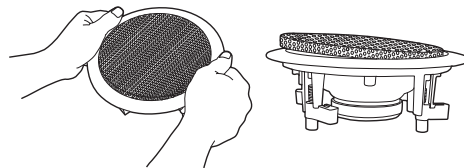


3. Use a drywall or keyhole saw to cut the hole. ⚡

### PREPARING THE SPEAKER

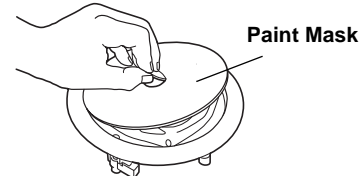
If you choose to paint the frame and grille, paint them and let them dry before you connect the speaker wire or mount the speaker.

To remove the grille for painting, insert a paper clip into one of the grille openings, then pull up. Or, you can carefully twist the plastic frame back and forth until the grille edge becomes exposed, then lift the grille to remove it.



Carefully remove the dust cloth from behind the grill and replace it after you are finished painting. ✓

You can also paint the frame to match your wall or ceiling. To prevent paint from entering the speaker, remove the grille and insert the supplied cardboard paint mask. After the paint is dry, remove the paint mask and replace the grille.



## CONNECTING THE SPEAKER WIRES

Your local RadioShack store sells a wide selection of speaker wire. We recommend you use wire that is color-coded or marked on one side to help you connect the wire correctly.

*For a stereo configuration*, route two sets of wires to the speaker from the receiver. ✓

*For a mono configuration*, route one set of wires.

## ✓ NOTE ✓

Do not paint the speaker element. We recommend you spray-paint the grille so paint does not block the holes.

## ⚡ CAUTION ⚡

Be sure not to cut into any existing wiring or plumbing hidden behind the wall.

## ✓ NOTES ✓

- Avoid routing the speaker wire near electrical wires.
- Do not nail or staple the speaker wire.



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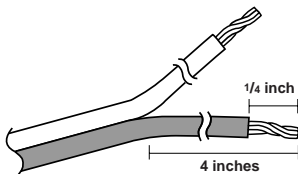
This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

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1. Separate about 4 inches of speaker wire at each end.



2. Using a wire stripper, remove about 1/4 inch of insulation from each wire. Then twist the ends of each wire.

## STEREO CONFIGURATION

1. Connect the marked wire to a red speaker terminal by pressing the release tab, inserting the wire into the hole, and then releasing the tab. Repeat this procedure to connect the unmarked wire to the black terminal on the same terminal block.
2. Repeat Step 1 to connect the second set of wires to the other terminal block.
3. For the first set of wires, connect the marked wire coming from the speaker to the left channel of the receiver's positive (+) terminal. Then connect the unmarked

wire to the left channel of the amplifier's negative (-) terminal.

4. Repeat Step 3 to connect the remaining set of wires to the receiver's right channel terminals.

## MONO CONFIGURATION

Wire the two sets of terminals located on the back of the speaker in parallel or series.

*To connect in parallel:*

1. Using two pieces of wire, connect both sets of red terminals together and both sets of black terminals together.
2. Connect the wires from the receiver to one set of terminals as described in "Stereo Configuration" Step 1.

*To connect in series:*

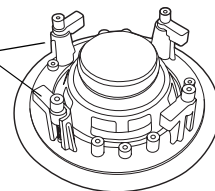
1. Using one piece of wire, connect the red terminal of one set of terminals to the black terminal of the other set.
2. Connect the wires from the receiver to the remaining black and red terminals.

## MOUNTING THE SPEAKER

1. Remove the grille to expose the mounting screws.
2. Be sure the mounting tabs are turned in, allowing the speaker to fit into the hole. Then insert the speaker into the mounting hole.
3. Use the four screws to tighten the mounting tabs to the wall or ceiling. Be careful not to overtighten the screws.

4. Replace the grille.

Mounting Tabs



To remove the speaker from the wall or ceiling, loosen the screws only far enough to remove the speaker. This will prevent loss of the mounting tabs.

## SPECIFICATIONS

Resonance Frequency .....	55 Hz $\pm$ 20%
Frequency Response .....	30 Hz through 20 kHz
Power Rating .....	40 Watts RMS, 80 Watts Max.
Impedance (nominal) .....	8 Ohms
Sensitivity...Mono (Series/Parallel), Stereo .....	83 dB $\pm$ 3 dB
Voice Coil (Woofer 4 layer) .....	1 in. (25 mm)
Voice Coil (Tweeter ea.) .....	.55 in. (14 mm)
Magnet Size (Woofer) .....	11 oz

The plastic enclosure for this speaker meets UL 94 requirements for flammability.

Specifications are typical; individual units may vary. Specifications are subject to change or improvement without notice.